

US EPA RECORDS CENTER REGION 5



466806

Monthly Oversight Report 25
ACS NPL Site
Griffith, Indiana
December 28, 2002 - January 31, 2003



BLACK & VEATCH

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Black & Veatch Special Projects Corp.

USEPA/RAC VII
American Chemical Services RAO (057-ROBF-05J7)

BVSPC Project 46526
BVSPC File C.3
February 11, 2003

Mr. Kevin Adler
U.S. Environmental Protection Agency
77 W. Jackson Boulevard (SR-6J)
Chicago, Illinois 60604-3590

✓ K7.
2/27/03

Subject: Monthly Oversight Summary Report
No. 25 for January 2003

Dear Mr. Adler:

Enclosed is the Monthly Oversight Summary Report No. 25 for January 2003 for the American Chemical Services Superfund Site in Griffith, Indiana.

If you have any questions, please call (312-683-7856) or email (campbelllm@bv.com).

Sincerely,

BLACK & VEATCH Special Projects Corp.

Larry M. Campbell, P.E.
Site Manager

Enclosure

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Monthly Oversight Summary Report No. 25
ACS Superfund Site WA57, 46526.238

Reporting Period: Month of January (December 28, 2002 - January 31, 2003)

BVSPC O/S Dates: January 2, 9, and 30, 2003

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	5	Respondent's General Contractor
Indiana Department of Environmental Management	1	
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Independent Environmental Services	3	ONCA SBPA ISVE System Yard Piping Contractor
Austgen	1	General Contractor
Eagle Services	3	ONCA SBPA ISVE System Sediment Removal Contractor
Vidimos	3	OFCA ISVE System Scrubber Fabricator

Construction Activities

Major Activities:

- Independent Environmental Services welded and pressure tested the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system yard piping.
- Montgomery Watson Harza and Austgen assembled the pneumatic pumps for the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system dual phase extraction wells.
- Eagle Services removed sediment build-up from the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system wells.
- Independent Environmental Services began installing the air supply lines for the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system dual phase extraction well pumps.
- MWH ceased operating the Off-Site Containment Area in-situ soil vapor extraction system briefly to repair damage to the scrubber sump.
- Vidimos inspected the existing Off-Site Containment Area in-situ soil vapor extraction system sump in preparation for fabricating a replacement.

- Montgomery Watson Harza held weekly construction coordination meetings on January 2, 9, 16, 23, and 30, 2003.

Activities Performed:

Independent Environmental Services (IES) completed placing the majority of the geotextile on the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) interim clay cover; however, IES still needs to place geotextile on the western portion of the cover, west of the in-situ soil vapor extraction (ISVE) well field. On January 13, 2003, IES completed welding and pressure testing the ONCA SBPA ISVE system HDPE yard piping for the vapor conveyance pipe runs. IES maintained 95 psi pressure in the pipe runs for 15 minutes. Montgomery Watson Harza (MWH) postponed IES' work at the site during the weeks of January 13 and 20, 2003, because of severe cold weather.

On January 2, 2003, MWH measured the depth to the pitless adaptor, water level, and bottom of the ONCA SBPA ISVE system extraction wells and assembled the pneumatic pumps for the dual phase extraction (DPE) wells. During measurement activities, MWH detected free product in several wells, namely: SVE-48, SVE-57, SVE-61, SVE-63, SVE-65, SVE-69, SVE-77, and SVE-87.

Eagle Services removed sediment, water, and free product from the ONCA SBPA ISVE wells from January 9, 2003, to January 13, 2003. Eagle Services removed the build-up from the wells using an air vacuum truck. Eagle Services performed its activities in a poly-coated tyvek suit, chemical resistant gloves, and half face respirator, in addition to the basic personal protective equipment requirements at the site. MWH reported that it conducted periodic air monitoring around Eagle Services' activities using a photo-ionization detector and coordinated work activities with IES. MWH ceased operating the groundwater treatment plant (GWTP) on Thursday, January 9, 2003, for 4 hours in order to provide the capacity needed to treat the liquids generated during Eagle Services' activities with the ONCA SBPA ISVE wells. MWH lowered the level in the oil water separator while the GWTP was shut down. MWH confirmed the total depth of the ONCA SBPA ISVE system wells after Eagle Services was finished in order to verify that the sediment build-up was removed.

IES returned to the site on January 28, 2003, and tapped into the ONCA SBPA ISVE system DPE wells for the air supply lines. MWH reported on January 9, 2003, that it refined the design for the air supply lines to the DPE wells. MWH reported that the 1-inch-diameter air supply line will be installed through the well casing rather than through the well cap as originally designed. Prior to tapping into the well, IES placed a muni ball in the well below the connection location and inerted the well with nitrogen. IES monitored the oxygen and lower explosive limit during the inerting process. IES also performed air monitoring of the breathing zone with a photo-ionization detector. IES proceeded to remove the excess riser pipe from the DPE wells using a non-sparking tube cutter. IES began laying the tubing for the air supply lines to the DPE wells and installed a portion of the bulkhead fittings on the wells. Montgomery Watson Harza (MWH) reported that it anticipated installing the pneumatic pumps during the week of February 2, 2003, and will begin pumping by February 7, 2003.

MWH continued operating the groundwater treatment plant (GWTP) at 20 gpm throughout the reporting period. MWH reported that the flow to the GWTP was primarily supplied by the perimeter groundwater

collection system and MW-56. MWH also reported that it replaced the filter press fabric and repaired the air compressor in the GWTP.

MWH reported that the Off-Site Containment Area (OFCA) ISVE system continued to operate, pulling vapors from the initial 17 wells placed on-line. MWH reported that it has observed pinholes filled with calcified water in several of the welds and that some corrosion is present on the scrubber reservoir tank, immediately below the tower packing. On January 27, 2003, MWH reported that a haze of moist air was observed in the GWTP. MWH ventilated the building and shut down the OFCA ISVE system. MWH inspected the OFCA ISVE scrubber and found that the pinholes in the unit were no longer filled with calcified water and had vented moist air from the scrubber. MWH shut down the unit and patched the areas with fiberglass patches. MWH also connected piping from the catalytic oxidizer to the OFCA ISVE system scrubber so that the heat exchanger can be operated from the catalytic oxidizer when the OFCA ISVE system is down. MWH resumed operating the unit on January 28, 2003, continuing to pull vapors from the original 17 wells.

MWH reported that it contracted Vidimos, a specialty metal manufacturer, to replace the stainless steel scrubber sump with one made from Hastelloy so that it is more resistant to the corrosive vapors. Vidimos inspected the existing scrubber sump on January 30, 2003. Vidimos will fabricate the replacement sump over the coming weeks. MWH reported that Ryan Construction is scheduled to disassemble the OFCA ISVE system scrubber on February 5, 2003. MWH reported that the Off-Site Containment Area (OFCA) ISVE system continued to operate, pulling vapors from the initial 17 wells placed on-line. MWH reported that it will begin pulling vapors from a new set of wells after the system has been inspected in February. After the new wells are brought on-line, MWH reported that it will sample the wells in accordance with the *Performance Standard Verification Plan*.

Attached are BVSPC weekly reports No. 96 through 100, correspondence, log book notes, and photographs of the daily activities. BVSPC's crew conducted oversight of the major field activities on January 2, 9, and 30, 2003. BVSPC's crew attended three weekly construction coordination meetings at the site on January 2, 9, and 30, 2003. BVSPC attended the weekly construction meetings held on January 16 and 23, via conference call because of the construction inactivity at the site.

Topics of Concern:

- MWH reported that there are two thin areas of the ONCA SBPA interim cover where the thickness of the clay is less than the design thickness. Based on HHSP's clay sample for the ONCA SBPA interim cover, the permeability of the clay does not meet the design requirements.

Concern Resolution:

- MWH proposed to collect two samples from the ONCA SBPA interim clay cover for permeability testing.

Upcoming Activities:

- Area Survey to resurvey P-36 and MW-10C.

- IES to install the air supply lines to the ONCA SBPA ISVE system DPE wells.
- IES to complete placing the geotextile over the ONCA SBPA interim cover.
- IES to tap into the ONCA SBPA ISVE system vapor extraction wells.
- MWH to inspect the OFCA ISVE system thermal oxidizer and scrubber units.
- Vidimos to fabricate a replacement OFCA ISVE system scrubber sump.
- MWH to test the permeability of the ONCA SBPA interim clay cover.

Signature: Leigh Peters

Date: January 3, 2003

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Weekly Oversight Summary Report No. 96
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of December 30, 2002.

BVSPC O/S Dates: January 2, 2003 (Ms. Peters)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	3	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Independent Environmental Services	2	ONCA SBPA ISVE Yard Piping Contractor
Austgen	1	General Contractor

Construction Activities

Major Activities:

- Independent Environmental Services began welding the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system yard piping.
- Montgomery Watson Harza measured the depth to groundwater in the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system dual phase extraction wells.
- Montgomery Watson Harza held the weekly construction coordination meeting on January 2, 2003.

Activities Performed:

Independent Environmental Services (IES) began welding the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) in-situ soil vapor extraction (ISVE) system HDPE yard piping for the vapor conveyance pipe runs. Austgen continued to assist IES with yard piping installation activities. Montgomery Watson Harza (MWH) reported that IES will pressure test the yard piping next week and will begin tapping into the remaining ISVE wells once all of the yard piping is installed and tested. IES completed placing geotextile on the majority of the ONCA SBPA interim cover; however, IES still needs to place geotextile on the western portion of the cover, west of the ISVE well field.

MWH measured the depth to the pitless adaptor, water level, and bottom of the ONCA SBPA ISVE system extraction wells. MWH detected free product in several wells, namely: SVE-48, SVE-57, SVE-61, SVE-63, SVE-65, SVE-69, SVE-77, and SVE-87. MWH reported that it will begin assembling the pumps for the dual phase extraction wells next week.

MWH reported that the Off-Site Containment Area (OFCA) ISVE system continued to operate. MWH reported that it plans to schedule a shut down of the OFCA ISVE system next week in order to inspect the thermal oxidizer and scrubber units for corrosion. MWH also reported that the groundwater treatment plant was operating at 20 gpm and that it replaced the filter press fabric in the plant.

MWH held the weekly construction coordination meeting on January 2, 2003.

Topics of Concern:

- MWH reported that there are two thin areas of the ONCA SBPA interim cover where the thickness of the clay is less than the design thickness. Based on HHSI's clay sample for the ONCA SBPA interim cover, the permeability of the clay does not meet the design requirements.

Concern Resolution:

- Averaging the permeability of the OFCA clay samples with the ONCA SBPA clay sample may not be appropriate. There may have been changes in the borrow materials or the test may have been performed by different laboratories.

Upcoming Activities:

- Area Survey to resurvey P-36 and MW-10C.
- IES to continue installing and pressure testing the ONCA SBPA ISVE system yard piping.
- IES to complete placing the geotextile over the ONCA SBPA interim cover.
- IES to tap into the ONCA SBPA ISVE system vapor extraction wells.
- MWH to inspect the OFCA ISVE system thermal oxidizer and scrubber units.

Signature: Leigh Peters

Date: January 8, 2003

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**WEEKLY CONSTRUCTION MEETING AGENDA
FOR JANUARY 2, 2003 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, January 2, 2003

MEETING TIME: 10:00 am

MEETING LOCATION: ACS Site – Site Trailer

TOPICS:

Health and Safety Summary (Lee)

GWTP Status (Lee)

- Current flow rate
- Carbon changeout

Off-Site ISVE System (Chris/Todd)

- System operation

SBPA ISVE Yard Piping (Todd/Dan)

- Update
- Placing geotextile
- Placing pipe
- Them ox/scrubber procurement
- Look ahead

Design Refinements (Travis/Rob)

Looking Ahead

Week of...	Task
January 9	<ul style="list-style-type: none">• GWTP/ISVE system operation• SPBA ISVE yard piping
January 16	<ul style="list-style-type: none">• GWTP/ISVE system operation• SPBA ISVE yard piping
Health and Safety Look Ahead	<ul style="list-style-type: none">• SPBA ISVE yard piping

Next Weekly Construction Meeting

- January 9, 2003 Thursday

SIGN IN SHEET
WEEKLY CONSTRUCTION MEETING
January 2, 2003

Name	Company	Fax Number
Travis Klingforth	MWH	
Lough Peters	BVSPC	312-346-4781
TOM TUNICS	MWH	
Lee OROSZ	MWH	
Kevin Adler	US EPA	Call in
Chad Smith	MWH	"
Peter Vagt	MWH	"
Todd Lewis	MWH	"
Rob Adams	MWH	"
John Pohl	MWH	"
Chris Daly	MWH	"

**WEEKLY CONSTRUCTION MEETING MINUTES
FOR JANUARY 2, 2003 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: January 2, 2003

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site – Site Trailer

ATTENDEES: Todd Lewis – MWH (via phone)
Peter Vagt – MWH (via phone)
Rob Adams – MWH (via phone)
Chris Daly – MWH (via phone)
Lee Orosz – MWH
Tom Tinics – MWH
Chad Smith – MWH (via phone)
Jon Pohl – MWH (via phone)
Travis Klingforth – MWH
Kevin Adler – U.S. EPA (via phone)
Leigh Peters – BVSPC

TOPICS:

Health and Safety Summary

No health and safety incidents occurred at the Site since the last weekly meeting on December 19, 2002. Independent Environmental Services (IES) is the only subcontractor working on site currently. Christmas and New Year's holidays and inclement weather limited IES's fieldwork at the site to two days since the last weekly meeting on December 19.

Groundwater Treatment Plant (GWTP) Status

The GWTP has been operating normally since the last meeting. The GWTP was down on December 19 for a routine periodic change-out of the carbon in the carbon filters. The system was started again in recirculation mode on December 20 and began discharging treated effluent on December 23.

In-Situ Vapor Extraction (ISVE) System – Off-Site Area

The Off-Site Area ISVE system, including the thermal oxidizer unit, has operated continuously since the last meeting on December 19. Seventeen SVE wells are currently on-line. Ryan Construction will disassemble components of the thermal oxidizer scrubber unit during the week of January 6, 2003 to look for evidence of corrosion.

On-Site Area ISVE System

The vapor and compressed air conveyance pipe installation for the ISVE system is being installed by IES at the direction of MWH. IES has installed geotextile fabric over 70 to 80 percent of the entire work area (both east and west sides of the site). IES continues to fuse three-inch diameter conveyance piping and lay out the pipe to the various ISVE wells where the final connections will later be made.

IES is scheduled to begin to tap into the 25 regular ISVE (non-dual phase) wells in the On-Site Area and attach saddles during the week of January 6.

Ryan Construction poured approximately 50 cubic yards of concrete on December 16 to construct the blower shed pad. The concrete forms were removed on December 19.

MWH and Global continue to finalize the design for the new thermal oxidizer/scrubber unit. More information on delivery schedule will be available in the future.

Groundwater Monitoring

MWH performed groundwater sampling via geoprobe on December 19 and 20, 2002 as part of Phase 3 of the ORC pilot study. The samples were collected near the intersection of Reder Road and Colfax Avenue, just southeast of the ACS Site. The samples will be analyzed and the results included in a future monthly progress report. During 2003, MWH will collect soil samples via geoprobe to investigate the aquifer matrix near the intersection of Reder Road and Colfax Avenue.

Design Refinements

MWH sent revised blower shed drawings for the On-Site Area to the Agencies on January 2, 2003.

Looking Ahead

Week of January 6, 2003	<ul style="list-style-type: none">• GWTP/ISVE operation• IES continues to install vapor conveyance piping
Week of January 13, 2003	<ul style="list-style-type: none">• GWTP/ISVE operation• Continue to install vapor conveyance piping
Health and Safety Items to Monitor	<p>On-Site ISVE Vapor Piping Installation</p> <ul style="list-style-type: none">• Welding pipe• Inerting and tapping wells• Slips, trips, falls (especially in ice/snow and around SVE wells)• Temperature/hypothermia• Safe winter driving• Ladder safety

Next Weekly Construction Meetings

- Thursday, January 9, 2003
- Also, a meeting among MWH, the U.S. EPA, and Black & Veatch is tentatively scheduled for January 16, 2003 at the Site construction office to further discuss the 2001 Construction Completion Report Comments.

TMK/RAA/PJV

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Weekly Oversight Summary Report No. 97
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of January 6, 2003.

BVSPC O/S Dates: January 9, 2003 (Ms. Peters)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	5	Respondent's General Contractor
Indiana Department of Environmental Management	1	
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Independent Environmental Services	2	ONCA SBPA ISVE System Yard Piping Contractor
Austgen	1	General Contractor
Eagle Services	3	ONCA SBPA ISVE Sediment Removal Contractor

Construction Activities

Major Activities:

- Independent Environmental Services completed welding and pressure tested the majority of the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system yard piping.
- Eagle Services began removing sediment build-up from the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system wells.
- Montgomery Watson Harza and Austgen assembled the pneumatic pumps for the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system dual phase extraction wells.
- Montgomery Watson Harza held the weekly construction coordination meeting on January 9, 2003.

Activities Performed:

Independent Environmental Services (IES) completed welding the majority of the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) in-situ soil vapor extraction (ISVE) system yard piping. IES reported that it was short approximately 50 feet of HDPE piping; however, the piping is expected to be on-site next week. IES successfully pressure tested the majority of completed ONCA SBPA ISVE

system yard piping pipe runs. IES maintained 95 psi pressure in the pipe runs for 15 minutes. IES reported that it will begin tapping into the remaining wells next week. Montgomery Watson Harza (MWH) reported that it refined the design for the air supply lines to the dual phase extraction wells. MWH reported that the 1-inch-diameter air supply line will be installed through the well casing rather than through the well cap as originally designed. MWH and Austgen assembled the pneumatic pumps for the ONCA SBPA ISVE system dual phase extraction wells.

Eagle Services began removing sediment, water, and free product that had built up in the ONCA SBPA ISVE wells. Eagle Services removed the build-up from the wells using an air vacuum truck. MWH provided both the MWH and the ACS health and safety orientation for Eagle Services. Eagle Services performed its activities in a poly-coated tyvek suit, chemical resistant gloves, and half face respirator, in addition to the basic personal protective equipment requirements at the site. MWH reported that it conducted periodic air monitoring around Eagle Services' activities using a photo-ionization detector. Eagle Services coordinated its work activities with IES.

MWH ceased operating the groundwater treatment plant (GWTP) on Thursday, January 9, 2003, for 4 hours in order to provide the capacity needed to treat the liquids generated during Eagle Services' activities with the ONCA SBPA ISVE wells. MWH lowered the level in the oil water separator while the GWTP was shut down. MWH reported it resumed operating the GWTP at 20 gpm.

MWH reported that the Off-Site Containment Area (OFCA) ISVE system continued to operate, pulling vapors from the initial 17 wells placed on-line. MWH reported that it has postponed the shutdown of the system until February in order to acquire replacement parts that may be needed for the scrubber during the shutdown. MWH reported that it has observed pinholes in several of the welds and that some corrosion is present on the scrubber reservoir tank, immediately below the tower packing. MWH reported that Ryan Construction will disassemble the unit and that Vidimos, a local specialty fabricator, will inspect the condition of the steel and welds.

MWH held the weekly construction coordination meeting on January 9, 2003.

Topics of Concern:

- MWH reported that there are two thin areas of the ONCA SBPA interim cover where the thickness of the clay is less than the design thickness. Based on HHSI's clay sample for the ONCA SBPA interim cover, the permeability of the clay does not meet the design requirements.

Concern Resolution:

- Averaging the permeability of the OFCA clay samples with the ONCA SBPA clay sample may not be appropriate. There may have been changes in the borrow materials or the test may have been performed by different laboratories.

Upcoming Activities:

- Area Survey to resurvey P-36 and MW-10C.
- IES to continue installing and pressure testing the ONCA SBPA ISVE system yard piping.
- Eagle Services to complete removing sediment build-up from the ONCA ISVE system wells.
- IES to complete placing the geotextile over the ONCA SBPA interim cover.
- IES to tap into the ONCA SBPA ISVE system vapor extraction wells.
- MWH to inspect the OFCA ISVE system thermal oxidizer and scrubber units.

Signature: Leigh Peters

Date: January 16, 2003

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**WEEKLY CONSTRUCTION MEETING AGENDA
FOR JANUARY 9, 2003 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, January 9, 2003

MEETING TIME: 10:00 am

MEETING LOCATION: ACS Site – Site Trailer

TOPICS:

Health and Safety Summary (Lee)

- Vacuuming wells

GWTP Status (Lee)

- Current flow rate

Off-Site ISVE System (Chris/Todd)

- System operation

SBPA ISVE Yard Piping (Lee/Mike)

- Update
- Fusing pipe
- Pressure testing
- Vacuuming Wells (Eagle Services)
- Them ox/scrubber procurement
- Look ahead

Design Refinements (Travis/Rob)

Looking Ahead

Week of...	Task
January 13	<ul style="list-style-type: none">• GWTP/ISVE system operation• SPBA ISVE yard piping• Vacuuming wells
January 20	<ul style="list-style-type: none">• GWTP/ISVE system operation• SPBA ISVE yard piping
Health and Safety Look Ahead	<ul style="list-style-type: none">• SPBA ISVE yard piping• Vacuuming wells

Next Weekly Construction Meeting

- January 16, 2003 Thursday

SIGN IN SHEET
WEEKLY CONSTRUCTION MEETING
January 9, 2003

Name	Company	Fax Number
• Travis Klingforth	MWH	630 836.8959
Leigh Peters	BVSPC	312 346 4781
BOB ADAMS	MWH	630-836-8957
PETER VAGT	MWH	630-836-8959
• Tom Tynics	MWH	
Prabhaan Banarjee	IDEN	317-234-0352
• Kevin Adler	-US EPA	(phone)
Mark Travers	- Environ	(phone)
Jon Pohl	- MWH	(phone)
Chad Smith	- MWH	(phone)
Todd Lewis	- MWH	(phone)

**WEEKLY CONSTRUCTION MEETING MINUTES
FOR JANUARY 9, 2003 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: January 9, 2003

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site - Site Trailer

ATTENDEES: Todd Lewis - MWH (via phone)
Peter Vagt - MWH
Rob Adams - MWH
Lee Orosz - MWH
Tom Tinics - MWH
Chad Smith - MWH (via phone)
Jon Pohl - MWH (via phone)
Travis Klingforth - MWH
Kevin Adler - U.S. EPA (via phone)
Prabhakar Kasarabada - IDEM
Leigh Peters - BVSPC
Mark Travers - Environ (via phone)

TOPICS:

Health and Safety Summary

No health and safety incidents occurred at the Site since the last weekly meeting on January 2, 2002. Independent Environmental Services (IES) and Eagle Services are the only subcontractors working on site currently.

Groundwater Treatment Plant (GWTP) Status

The GWTP has been operating normally at 20 gallons per minute (gpm) since the last meeting. (This is currently near the maximum extraction rate for the system). The GWTP was shut down on January 9 to lower the liquid level in tank T-101 (the oil-water separator) to free up extra space in the treatment process to accept liquid vacuumed out of the ISVE wells into the GWTP for treatment (see more on Eagle's work below). The GWTP will be restarted during the week of January 13 when Eagle completes its work.

In-Situ Vapor Extraction (ISVE) System - Off-Site Area

The Off-Site Area ISVE system, including the thermal oxidizer unit, has operated continuously since the last meeting on January 2. Seventeen SVE wells are currently on-line.

MWH has rescheduled the general checkup of the thermal oxidizer to be conducted during the week of January 6. The work has been postponed until February so that MWH can have additional replacement parts on hand to facilitate any needed maintenance or repair.

On-Site Area ISVE System

The vapor and compressed air conveyance pipe installation for the ISVE system is being installed. The work in process is fusing three-inch diameter conveyance piping and laying out the pipe to the various ISVE wells where the final connections will later be made. Approximately 95 percent of the three-inch diameter conveyance piping has been installed. MWH began pressure testing completed lines from the Blower Shed pad to the flange located at each ISVE well on January 9. The flange is covered on each pipe run and the pipe is pressurized and tested at 95 psi for 15 minutes.

Scheduled tasks include tapping into the 25 regular ISVE (non-dual phase extraction) wells in the On-Site Area and attaching saddles during the week of January 20. IES will also tap into the 21 dual-phase extraction (DPE) wells to install one-inch diameter air supply lines. Pumps are expected to be installed in each of the DPE wells during the week of January 27.

Eagle Services began vacuuming out ISVE wells in the On-Site Area on January 9. MWH gave Eagle a health and safety briefing for the Site, including the ACS facility, on January 9 prior to Eagle beginning work. Eagle is working in Level C personal protective equipment (PPE) including air respirators, coated Tyvek coveralls, hard hats, safety glasses, and coated gloves. MWH has Hazwoper documentation for all workers on site.

MWH continues to finalize the design for the new thermal oxidizer/scrubber unit. The unit is expected to be delivered to the site in early April 2003.

MWH has given drawings of the two pre-fabricated Blower Shed buildings to be placed on the On-Site Area Blower Shed pad to Fliteway for review. These drawings were sent to the Agencies on January 2.

Design Refinements

The air supply lines required to operate the pneumatic pump in each DPE well were originally shown as entering through the well cap of each flush mount well. MWH has revised the design so that the air supply lines will now enter directly into each well through the casing. A small hole will be tapped into each casing to install a pitless adapter for the air supply lines. This design refinement will facilitate water level monitoring and pump maintenance. It will also further protect the air supply lines.

Looking Ahead

Week of January 13, 2003	<ul style="list-style-type: none">• GWTP/ISVE operation• Eagle completes vacuuming ISVE wells• Continue to install vapor conveyance piping
Week of January 20, 2003	<ul style="list-style-type: none">• GWTP/ISVE operation• Continue to install vapor conveyance piping
Health and Safety Items to Monitor	<p>On-Site ISVE Vapor Piping Installation</p> <ul style="list-style-type: none">• Welding pipe• Inerting and tapping wells• Slips, trips, falls (especially in ice/snow and around SVE wells)• Temperature/hypothermia• Safe winter driving• Pressure testing (releasing pressure)• Cutting off flush mount wells (using non-sparking tube cutter) <p>Vacuuming ISVE wells</p> <ul style="list-style-type: none">• Level C PPE (respirators)• Wind direction

Next Weekly Construction Meetings

- Thursday, January 16, 2003
- Also, a meeting among MWH, the U.S. EPA, and Black & Veatch is tentatively scheduled for January 23, 2003 to further discuss recent Construction Completion Report comments.

TMK/TAL/PJV/RAA

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Weekly Oversight Summary Report No. 98
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of January 13, 2003.

BVSPC O/S Dates: Cancelled because of limited site activities.

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	3	Respondent's General Contractor
Black & Veatch Special Projects Corp.	0	USEPA Oversight Contractor
Independent Environmental Services	2	ONCA SBPA ISVE System Yard Piping Contractor
Eagle Services	2	ONCA SBPA ISVE Well Sediment Removal Contractor

Construction Activities

Major Activities:

- Independent Environmental Services completed welding and pressure tested all of the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system yard piping.
- Eagle Services completed removing sediment build-up from the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system wells.
- Montgomery Watson Harza confirmed the total depth of the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system wells.
- Montgomery Watson Harza held the weekly construction coordination meeting on January 16, 2003.

Activities Performed:

Independent Environmental Services (IES) completed welding the remaining pipe run of the yard piping for the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) in-situ soil vapor extraction (ISVE) system. IES also successfully pressure tested all of the ONCA SBPA ISVE system yard piping. IES maintained 95 psi pressure in the pipe for 15 minutes in each of the yard piping pipe runs. Montgomery Watson Harza (MWH) reported that additional work at the site was postponed until January 27, 2003, because of the severe cold weather at the site. MWH reported that IES will resume work in 2 weeks and will begin by tapping into the ONCA SBPA ISVE system dual phase extraction (DPE) wells in order to install the air line for the extraction pumps. MWH reported that its focus will be completing the DPE wells in order to begin dewatering activities in the SBPA.

Eagle Services completed removing sediment, water, and product that had built up in the ONCA SBPA ISVE wells. Eagle Services removed the build-up from the wells using an air vacuum truck. Eagle Services performed its activities in a poly-coated tyvek suit, chemical resistant gloves, and half face respirator, in addition to the basic personal protective equipment requirements at the site. MWH reported that it conducted periodic air monitoring around Eagle Services' activities using a photo-ionization detector and coordinated work activities with IES. MWH confirmed the total depth of the ONCA SBPA ISVE system wells after Eagle Services was finished in order to verify that the sediment build-up was removed.

MWH continued operating the groundwater treatment plant (GWTP) at 20 gpm. MWH reported that the barrier wall extraction system was shut down and that the flow to the GWTP was supplied by the perimeter groundwater collection system and MW-56.

MWH reported that the Off-Site Containment Area (OFCA) ISVE system continued to operate, pulling vapors from the initial 17 wells placed on-line. MWH reported that the shut down and inspection of the system is scheduled for February.

MWH held the weekly construction coordination meeting on January 16, 2003.

Topics of Concern:

- MWH reported that there are two thin areas of the ONCA SBPA interim cover where the thickness of the clay is less than the design thickness. Based on HHSI's clay sample for the ONCA SBPA interim cover, the permeability of the clay does not meet the design requirements.

Concern Resolution:

- Averaging the permeability of the OFCA clay samples with the ONCA SBPA clay sample may not be appropriate. There may have been changes in the borrow materials or the test may have been performed by different laboratories..

Upcoming Activities:

- Area Survey to resurvey P-36 and MW-10C.
- IES to install the air supply lines to the ONCA SBPA ISVE system DPE wells.
- IES to complete placing the geotextile over the ONCA SBPA interim cover.
- IES to tap into the ONCA SBPA ISVE system vapor extraction wells.
- MWH to inspect the OFCA ISVE system thermal oxidizer and scrubber units.

Signature: Leigh Peters

Date: January 23, 2003

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**WEEKLY CONSTRUCTION MEETING MINUTES
FOR JANUARY 16, 2003 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: January 16, 2003

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site – Site Trailer

ATTENDEES: Todd Lewis – MWH
Chris Daly – MWH
Peter Vagt – MWH (via phone)
Rob Adams – MWH (via phone)
Lee Orosz – MWH
Tom Tinics – MWH
Chad Smith – MWH (via phone)
Jon Pohl – MWH (via phone)
Travis Klingforth – MWH (via phone)
Leigh Peters – BVSPC (via phone)

TOPICS:

Health and Safety Summary

No health and safety incidents occurred at the Site since the last weekly meeting on January 9, 2002. No subcontractors are working on site currently. Due to very cold weather at the site, installation of the ISVE conveyance piping has been postponed for a short while until temperatures increase.

Groundwater Treatment Plant (GWTP) Status

The GWTP has been operating normally at 20 gallons per minute (gpm) since the last meeting. (This is currently near the maximum extraction rate for the system). The BWES and PGCS were shut down a few times during January 9 through 13 (but never for more than four hours at a time) to lower the liquid level in tank T-101 (the oil-water separator). This freed up extra space in the treatment process to accept liquid extracted by vacuum from the ISVE wells into the GWTP for treatment. The BWES and PGCS resumed normal operation on January 13 when the extraction work was completed.

In-Situ Vapor Extraction (ISVE) System – Off-Site Area

The Off-Site Area ISVE system, including the thermal oxidizer unit, has operated continuously since the last meeting on January 9. Seventeen ISVE wells are currently on-line. MWH has ordered additional replacement parts to facilitate any needed maintenance or repair during the general checkup of the thermal oxidizer to be conducted during February.

On-Site Area ISVE System

The vapor and compressed air conveyance pipe installation for the ISVE system is being installed. Three-inch diameter conveyance piping has been installed from the Blower Shed pad to the flange located at each ISVE well. The final connections will be made later. MWH successfully pressure tested all 46 three-inch diameter conveyance lines from January 9 to January 13. The flange was covered on each pipe run and the pipe is pressurized and tested at 95 psi for 15 minutes.

Future tasks include tapping into the 25 non-dual phase ISVE extraction wells in the On-Site Area and attaching saddles. Independent Environmental Services (IES) will also tap into the 21 dual-phase extraction (DPE) wells to install one-inch diameter air supply lines. Each flush mount DPE well will be cut off at the design elevation. Pumps will then be installed in each of the DPE wells.

Eagle Services vacuum-extracted liquids and solids from the ISVE wells in the On-Site Area from January 9 to 13. MWH measured the depth to bottom of each of the 21 DPE wells on January 16 and confirmed that Eagle's work was effective in removing silt that had accumulated in some of the wells.

MWH is working with the vendor Anguil/Global to review shop drawings for the new thermal oxidizer/scrubber unit. The unit is expected to be delivered to the site in early April 2003. MWH is discussing with Fliteway the design of the two pre-fabricated Blower Shed buildings to be placed on the On-Site Area Blower Shed pad.

Design Refinements

MWH did not have any design refinements to discuss during the meeting.

Looking Ahead

Week of January 20, 2003	<ul style="list-style-type: none"> • GWTP/ISVE operation
Week of January 27, 2003	<ul style="list-style-type: none"> • GWTP/ISVE operation • Continue to install vapor conveyance piping
Health and Safety Items to Monitor	<p>On-Site ISVE Vapor Piping Installation</p> <ul style="list-style-type: none"> • Inerting and tapping wells • Slips, trips, falls • Temperature/hypothermia/blizzards • Safe winter driving • Cutting off flush mount wells (using non-sparking tube cutter)

Next Weekly Construction Meetings

- Thursday, January 23, 2003
- A meeting date among MWH, the U.S. EPA, and Black & Veatch will be finalized to further discuss recent Construction Completion Report comments.

TMK/RAA/PIV/TAL

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Construction Meeting Minutes

January 21, 2003

ACS NPL Site

January 16, 2003 Meeting

Page 2

Weekly Oversight Summary Report No. 99
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of January 20, 2003.

BVSPC O/S Dates: Cancelled because of limited site activities.

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	2	Respondent's General Contractor
Black & Veatch Special Projects Corp.	0	USEPA Oversight Contractor

Construction Activities

Major Activities:

- Montgomery Watson Harza repaired the air compressor in the groundwater treatment plant.
- Montgomery Watson Harza held the weekly construction coordination meeting on January 23, 2003.

Activities Performed:

MWH postponed the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system well installation activities because of cold weather.

MWH continued operating the groundwater treatment plant (GWTP) at 20 gpm. MWH reported that the barrier wall extraction system was shut down and that the flow to the GWTP was supplied by the perimeter groundwater collection system and MW-56. MWH also reported that it repaired the air compressor in the GWTP.

MWH reported that the Off-Site Containment Area (OFCA) ISVE system continued to operate, pulling vapors from the initial 17 wells placed on-line. MWH reported that the shut down and inspection of the system is scheduled for February. MWH also reported that it will begin pulling vapors from a new set of wells after the system has been inspected in February. After the new wells are brought on-line, MWH reported that it will sample the wells in accordance with the *Performance Standard Verification Plan*.

MWH held the weekly construction coordination meeting on January 23, 2003.

Topics of Concern:

- MWH reported that there are two thin areas of the ONCA SBPA interim cover where the thickness of the clay is less than the design thickness. Based on HHSL's clay sample for

the ONCA SBPA interim cover, the permeability of the clay does not meet the design requirements.

Concern Resolution:

- MWH proposed to collect two samples from the ONCA SBPA interim clay cover for permeability testing.

Upcoming Activities:

- Area Survey to resurvey P-36 and MW-10C.
- IES to install the air supply lines to the ONCA SBPA ISVE system DPE wells.
- IES to complete placing the geotextile over the ONCA SBPA interim cover.
- IES to tap into the ONCA SBPA ISVE system vapor extraction wells.
- MWH to inspect the OFCA ISVE system thermal oxidizer and scrubber units.
- MWH to test the permeability of the ONCA SBPA interim clay cover.

Signature: Leigh Peters

Date: January 27, 2003

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**WEEKLY CONSTRUCTION MEETING MINUTES
FOR JANUARY 23, 2003 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: January 16, 2003

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site - Site Trailer

ATTENDEES:

Lee Orosz - MWH
Tom Tinics - MWH
Chris Daly - MWH
Peter Vagt - MWH (via phone)
Rob Adams - MWH (via phone)
Chad Smith - MWH (via phone)
Jon Pohl - MWH (via phone)
Kevin Adler - U.S. EPA (via phone)
Leigh Peters - BVSPC (via phone)

TOPICS:

Health and Safety Summary

No health and safety incidents occurred at the Site since the last weekly meeting on January 16, 2003. No subcontractors have been working on site currently due to very cold weather at the site.

Groundwater Treatment Plant (GWTP) Status

The GWTP has been operating normally at 20 gallons per minute (gpm) since the last meeting. (This is currently near the maximum extraction rate for the system). On January 22, 2003, the treatment plant lost power for a few minutes. This did not effect the system. A contractor was on-site to repair the plant's compressor. The repairs are complete. The activated sludge plant is currently operating at 48°F in the cold weather.

In-Situ Vapor Extraction (ISVE) System - Off-Site Area

The Off-Site Area ISVE system, including the thermal oxidizer unit, is still operating continuously with the same group of seventeen wells. MWH will be changing the group of wells once inspection and repairs have been made on the scrubber unit. It is anticipated that the unit will be down for 1 -2 weeks for inspection and repairs. MWH anticipates that the inspection and repairs will begin at the end of January. Once the unit is operating and the new set of wells are online, sampling will be performed in accordance with the PSVP.

On-Site Area ISVE System

Due to the cold weather, no work has been on the installation of the On-Site ISVE System for two weeks. MWH will begin cutting the dual phase wells down to their proper elevation and installing pitless adapters for connecting the air supply lines the week of January 27. It is a potential that the dual phase wells could be pumping by January 31.

MWH has reviewed and commented on Fliteway's blower shed proposal for the On-Site Area. The comments have been sent to Fliteway for their revision of the proposal. MWH is also in the process of reviewing a revised piping and instrument diagram (PID) for the On-Site thermal oxidizer unit from Anguil/Global.

MWH is in the process of scheduling the collection and analysis of two additional permeability tests from the clay used for the SBPA Interim Cover.

Design Refinements

MWH did not have any design refinements to discuss during the meeting.

Looking Ahead

Week of January 27, 2003	<ul style="list-style-type: none">• GWTP/ISVE operation• Continue to install vapor conveyance piping
Week of February 3, 2003	<ul style="list-style-type: none">• GWTP/ISVE operation• Continue to install vapor conveyance piping
Health and Safety Items to Monitor	<p>On-Site ISVE Vapor Piping Installation</p> <ul style="list-style-type: none">• Inerting and tapping wells• Slips, trips, falls• Temperature/hypothermia/blizzards• Safe winter driving• Cutting off flush mount wells (using non-sparking tube cutter)

Next Weekly Construction Meetings

- Thursday, January 30, 2003

JDP/RAA

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Weekly Oversight Summary Report No. 100
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of January 27, 2003.

BVSPC O/S Dates: January 30, 2003 (Ms. Peters).

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	5	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Independent Environmental Services	3	ONCA SBPA ISVE System Yard Piping Contractor
Vidimos	1	OFCA ISVE System Scrubber Fabricator

Construction Activities

Major Activities:

- Independent Environmental Services began installing the air supply line to the On-Site Containment Area Still Bottoms Pond Area in-situ soil vapor extraction system dual phase extraction wells.
- MWH ceased operating the Off-Site Containment Area in-situ soil vapor extraction system briefly in order to repair damage to the scrubber sump.
- Vidimos inspected the existing Off-Site Containment Area in-situ soil vapor extraction system sump in preparation for fabricating a replacement.
- Montgomery Watson Harza held the weekly construction coordination meeting on January 30, 2003.

Activities Performed:

Independent Environmental Services (IES) tapped into the On-Site Containment Area (ONCA) Still-Bottoms Pond Area (SBPA) in-situ soil vapor extraction (ISVE) system dual phase extraction (DPE) wells for the air supply lines. Prior to tapping into the well, IES placed a muni ball in the well below the connection location and inerted the well with nitrogen. IES monitored the oxygen and lower explosive limit during the inerting process. IES also performed air monitoring of the breathing zone with a photo-ionization detector. IES proceeded to remove the excess riser pipe from the DPE wells using a non-sparking tube cutter. IES began laying the tubing for the air supply lines to the DPE wells and installed a portion of the bulkhead fittings on the wells. Montgomery Watson Harza (MWH) reported that it anticipated installing the pneumatic pumps by the week of February 2, 2003, and will begin pumping by February 7, 2003.

MWH continued operating the groundwater treatment plant (GWTP) at 20 gpm. MWH reported that a haze of moist air was observed in the GWTP on Monday, January 27, 2003. MWH ventilated the building and shut down the Off-Site Containment Area (OFCA) ISVE system. MWH inspected the OFCA ISVE scrubber and found that the pinholes in the unit were no longer filled with calcified water and had vented moist air from the scrubber. MWH shut down the unit and patched the areas with fiberglass patches. MWH also connected piping from the catalytic oxidizer to the OFCA ISVE system scrubber so that the heat exchanger can be operated from the catalytic oxidizer when the OFCA ISVE system is down. MWH resumed operating the unit on January 28, 2003, continuing to pull vapors from the original 17 wells.

MWH reported that it contracted Vidimos, a specialty metal manufacturer, to replace the stainless steel scrubber sump with one made from Hastelloy so that it is more resistant to the corrosive vapors. Vidimos inspected the existing scrubber sump on January 30, 2003. Vidimos will fabricate the replacement sump over the coming weeks. MWH reported that Ryan Construction is scheduled to disassemble the OFCA ISVE system scrubber on February 5, 2003. MWH reported that the Off-Site Containment Area (OFCA) ISVE system continued to operate, pulling vapors from the initial 17 wells placed on-line. MWH reported that it will begin pulling vapors from a new set of wells after the system has been inspected in February. After the new wells are brought on-line, MWH reported that it will sample the wells in accordance with the *Performance Standard Verification Plan*.

MWH held the weekly construction coordination meeting on January 30, 2003.

Topics of Concern:

- MWH reported that there are two thin areas of the ONCA SBPA interim cover where the thickness of the clay is less than the design thickness. Based on HHSI's clay sample for the ONCA SBPA interim cover, the permeability of the clay does not meet the design requirements.

Concern Resolution:

- MWH proposed to collect two samples from the ONCA SBPA interim clay cover for permeability testing.

Upcoming Activities:

- Area Survey to resurvey P-36 and MW-10C.
- IES to install the air supply lines to the ONCA SBPA ISVE system DPE wells.
- IES to complete placing the geotextile over the ONCA SBPA interim cover.
- IES to tap into the ONCA SBPA ISVE system vapor extraction wells.
- MWH to inspect the OFCA ISVE system thermal oxidizer and scrubber units.
- Vidimos to fabricate a replacement OFCA ISVE system scrubber sump.
- MWH to test the permeability of the ONCA SBPA interim clay cover.

Signature: Leigh Peters

Date: February 3, 2003

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**WEEKLY CONSTRUCTION MEETING AGENDA
FOR JANUARY 30, 2003 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, January 30, 2003

MEETING TIME: 10:00 am

MEETING LOCATION: ACS Site – Site Trailer

TOPICS:

Health and Safety Summary (Tom)

GWTP Status (Lee)

- Current flow rate

Off-Site ISVE System (Chris/Todd)

- System operation
- Update on Thermal Oxidizer

SBPA ISVE Yard Piping (Lee/Mike)

- Update
- Connecting air lines/installing pumps
- Flush mount wells
- Them ox/scrubber procurement
- Look ahead

Design Refinements (Travis/Rob)

Looking Ahead

Week of...	Task
February 3	<ul style="list-style-type: none">• GWTP/ISVE system operation• SPBA ISVE yard piping
February 10	<ul style="list-style-type: none">• GWTP/ISVE system operation• SPBA ISVE yard piping
Health and Safety Look Ahead	<ul style="list-style-type: none">• SPBA ISVE yard piping

Next Weekly Construction Meeting

- February 6, 2003 Thursday

SIGN IN SHEET
WEEKLY CONSTRUCTION MEETING
January 30, 2003

Name	Company	Fax Number
ROB ADAMS	MWH	630-836-8959
LEE OROSZ	MWH	
TOM TINICS	MWH	
CHRIS DAY	MWH	
Leigh Peters	BVSPC	312-346-4781
TRAVIS KLINGFORTH	MWH	
JON POHL - (VIA PHONE)	MWH	
KEVIN ADLER - U.S. EPA (VIA PHONE)		

**WEEKLY CONSTRUCTION MEETING MINUTES
FOR JANUARY 30, 2003 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, January 30, 2003

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site – Site Trailer

ATTENDEES: Rob Adams – MWH
Chris Daly – MWH
Lee Orosz – MWH
Tom Tinics – MWH
Travis Klingforth – MWH
Jon Pohl – MWH (via phone)
Kevin Adler – U.S. EPA (via phone)
Leigh Peters – BVSPC

TOPICS:

Health and Safety Summary

No health and safety incidents occurred at the Site since the last weekly meeting on January 23. Independent Environmental Services (IES) is the only subcontractor that has been working on site recently. IES didn't work on-site from January 14 to January 27 due to extreme cold weather.

Groundwater Treatment Plant (GWTP) Status

The GWTP has been operating normally since the last meeting on January 23. The current flow rate is 23 gallons per minute (gpm). MWH has modified the hot water intake of the heat exchanger in tank T-2 so that either the catalytic oxidizer or the thermal oxidizer may power the heat exchanger. The heat exchanger continues to warm the water of the activated sludge plant and aeration tank during to achieve higher operating temperatures during winter months.

In-Situ Vapor Extraction (ISVE) System – Off-Site Area

The Off-Site Area ISVE system, including the thermal oxidizer unit, was shut down on January 27 due to two small leaks in the scrubber's vapor compartment near the sump. Corrosion problems in the scrubber have been noted in the past and repaired with high temperature caulks. The small leaks resulted in "scrubbed" vapor (air already initially treated) being released into the GWTP. This extra moisture in the air created a haze inside the GWTP over the weekend that required venting on January 27. The leaks were repaired with a fiberglass patch and the thermal oxidizer system was restarted on January 28. Seventeen SVE wells are currently on-line.

MWH plans to construct a replacement sump of Hastelloy material during February. No corrosion has been noted to date in system components constructed from Hastelloy. When the ISVE system is restarted with a new sump, MWH plans to shift to drawing influent vapors from a new set of ISVE wells.

The next monthly thermal oxidizer off-gas air sample will be collected on January 30 and analyzed by Air Toxics.

On-Site Area ISVE System

The vapor and compressed air conveyance pipe installation for the ISVE system is being installed by IES at the direction of MWH. After IES inerted each of the 21 dual-phase extraction (DPE) wells in the On-Site Area, they tapped each to receive a one-inch diameter airline that will provide compressed air to operate the pneumatic pumps. The pumps and associated hoses have been assembled and will be installed next. IES has also cut each DPE well to the proper height for flush-mounting. These tapping and cutting activities were conducted from January 28 to 30.

IES began to layout and fuse the one-inch diameter airlines to each of the DPE wells on January 30. MWH expects to install pumps in each DPE well and begin pumping from the upgraded On-Site Barrier Wall Extraction System (BWES) by the end of February.

After the 21 DPE wells have begun extracting groundwater, IES will continue tapping the remaining ISVE wells and connecting the three-inch diameter vapor extraction lines to each well.

MWH continues to finalize the designs and work with the suppliers for the new thermal oxidizer/scrubber unit and On-Site Area blower sheds.

Design Refinements

MWH plans to resample the clay installed in the On-Site Area as part of the interim cover to verify permeability results in the near future. MWH will inform the Agencies prior to this resampling.

Looking Ahead

Week of February 3, 2003	<ul style="list-style-type: none">• GWTP/ISVE operation• Continue to install vapor conveyance piping• Start pumping from On-Site Area upgraded BWES, weather permitting
Week of February 10, 2003	<ul style="list-style-type: none">• GWTP/ISVE operation• Continue to install vapor conveyance piping
Health and Safety Items to Monitor	<ul style="list-style-type: none">• On-Site ISVE Vapor Piping Installation<ul style="list-style-type: none">• Welding pipe• Inerting and tapping wells• Slips, trips, falls (especially in ice/snow and around SVE wells)• Temperature/hypothermia• Safe winter driving• Ladder safety

Next Weekly Construction Meetings

- Thursday, February 6, 2003

TMK/PJV/RAA

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(126)

12/23/02

Jeff Peterson

on line and up to temperature. MWH believes system went down because of clogged filters.

0815-0845 Worked on weekly reports.

0850 Went to ONCA. IES continuing to place geotextile and cutting out geotextile from around wells. D. Petrich reported IES to start tapping wells Thursday or Friday - expect to connect 7 wells per day - 5 days of work.

0915 Left Site for day - limited activity.

~~Jeff Peterson~~
12/23/02

(127)

01/02/03

Jeff Peterson

0720 Arrive on-site, 28-30°F. Cloudy, N wind. Personnel on-site:

* LCC Orosz MWH

Lane DeBartolo IES Mike Petrich

* Leigh Peters BVSFC

Tim Kirkland Austgen

0730 Spoke with L. Orosz - he reported that IES and Austgen to fuse pipe today and planning to get majority of piping done before tapping into 4-inch diameter wells. GWTP at 17 gpm, OFCA ISVE system operating.

0745 Went to ONCA. Geotextile placed over majority of west part of ONCA SBPA; however not complete. Observed IES welding pipe - IES warming equipment. Mike Petrich reported 4-5 more days of welding to rough-in the majority of piping. M. Petrich also reported that IES may finish laying geotextile this week depending on weather.

0830 Roll 34 Photo 19 facing SW showing IES welding pipe.

0845 Observed MWH taking water level measurements at DPE wells.

0905 Roll 34 Photo 20 facing NE of MWH measuring depth to pit house adapter.

(128)

1/2/03

J. E. P. R.

0910

MWH reported oil at DPE well SVE-48,
SVE-57, SVE-69, SVE-77, SVE-87
SVE-65, SVE-63, SVE-61

0950

Roll 34 Photo 21 facing E of oil at SVE-65
on water level indicator

0955

T. Klingforth reported PID readings <1 ppm
in breathing zone at wells, PID up to 1.5 ppm
where oil was detected in wells.

1010

Weekly Construction Coordination Mtg
Attendees * on previous plus

Ted T. Ricks MWH Travis Klingforth
via phone:

Kevin Adler EPA

Chad Smith MWH Peter Vagt

Todd Lewis MWH Rob Adams

Chris Daly MWH John Pohl

HTS: No incidents. MWH changed filter
press fabric - only 2 days of work

GWTP: Flow up from 17 gpm to 20 gpm and
should be able to maintain. Carbon
changeout on 12/19 - op in circulation mode
until 12/23. Changed filter press fabric

DECLA ISE: operated since last meeting -
MWH scheduling shut down for next
week to inspect system. Ryan also to

J. E. P. R.

(129)

J. E. P. R.

for on-site for piping upgrades + relocation
for future thermox and scrubber.

ONCA: 70% of geotextile laid on 12/29. IES
tuning pipe for pipe runs: may begin tapping
into wells next week. IES to pressure test
pipe runs.

Design Refinements: MWH submitting revised
ONCA blowdown drawings.

Look Ahead: GWTP, ISE op, ONCA, ISE
piping installation. Mtg for CCR comments
on 1/16.

Next Mtg: January 9, 2003.

1030 Mtg concluded.

1055 Went to ONCA, IES continuing to weld pipe runs.

No other activity planned for day

1115 Left site for day - Return to office

J. E. P. R.

(130)

1/9/03

J. E. Peters

0730

Arrive on-site, 30-35°F, Clear, S wind

Personal Present:

* Lee Orosz MNH

Glen Kuhl Eagle

Adam Brown Eagle

Terrence Jones IES

Mike Petrick IES

Rob Holcomb Eagle

* Travis Klingforth MNH

* Tom Tinies MNH

* Leigh Peters BVSPC

0740

Spoke with T. Klingforth. he reported IES finishing some welds, but to pressure test up to 4 ~~watts~~ ^{ft} lengths of yard piping at a time. T. Klingforth also reported IES short on HDPE pipe - additional ordered. Eagle services out for next week to begin removing silt & sediment from all 46 SVE wells. Eagle will not be able to bring equipment into well field, but will work from perimeter as to not damage yard piping.

0745

observed IES weld pipe. T. Klingforth reported MNH to cut flushmount wells next week and IES to install 1-inch diameter air lines.

J. E. Peters

(131)

1/9/03

J. E. Peters

0800 Roll 35 Photo 1 facing W showing IES welding angled pipe for connection at SVE-48.

0820 Walked ONLY SARA. observed geotextile not placed on portion of cover west of well field.

0830 Spoke with T. Tinies regarding Eagle activities. He reported Eagle to vacuum sediment from all wells, no jetting. vacuum to vac truck with dispose of solids/water at GWTP. Eagle to wear coated Tyvek, gloves, respirators. T. Tinies reported that MNH will conduct some air monitoring during activities. He also reported that MNH has appropriate H&S documentation for Eagle.

0850 Roll 35 Photo 2 facing S showing the pumps, air lines and pitless adaptor connection for dual phase wells.

0855 Went to ThermoX/scrubber w. T. Tinies. he reported pin holes in Durr well near ground but also failure at scrubber below packed column.

0900 Roll 35 Photo 3 facing E of precipitate and failure in steel near weld.

0910 T. Tinies reported Ryan Construction to disassemble unit in mid-February. MNH waiting for Hartalloy

J. E. Peters

(132)

1/7/03 Jeff Epstein

NO221c for primary quench. Still operating same 17 wells - starting to draw water in from well field.

0930

Went to ONCA, observed IES welding pipe, Eagle setting up on North portion of site. T. Klingforth reported IES waiting on blind flanges to pressure test yard piping. Flanges to arrive today.

1000

Nick's Construction Mtg

Attendees: * on previous plus:

Peter Vagt MWH Rob Adams

Prabhakar Kasurabada IDEM

Kevin Adler EPA (via phone)

Mark Travis Environ (via phone)

Todd Lewis MWH (via phone)

Chad Smith MWH (via phone)

John Pohl MWH (via phone)

HRS: Limited site activities, MWH assembled DPE pumps in GWTP this week. Eagle services onsite, held site HRS and ACS HRS mtg today. Eagle to wear tyvek, half face respirators and to coordinate with IES.

MWH to perform periodic air monitoring.

GWTP: shut down system today for Eagle's material from wells. to be

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1/9/03

Jeff Epstein

shut down until Eagle completes work.
GWTP flow at 20 gpm.

DFCA ISVE: operating smoothly, postponed inspection of unit 3-5 weeks in order to get replacement parts if required. Vidimusto inspect welding on unit. Potholes in welds are clogged with precipitated calcified water.

ONCA: 95% of piping welded, to complete next week when additional piping is delivered. Next week - top wells. IES to pressure test today and tomorrow. IES to install 1-inch air lines. MWH to place pumps when Eagle complete. MWH working with Global on new thermox and filterway for blower shed. Thermox expected in early April.

Design Refinements: 1-inch air line to go through well casing rather than well cap.

Look Ahead HRS: pressure testing with IES, MWH cutting down wells, to plug well and fill with water.

Next Mtg - 1/16/03; Mtg to discuss review comments postponing to 1/23/03.

1035 - Mtg Concluded.

1045 - MWH discussing site activities with IDEM. MWH reported biotank at 50°F and bugs

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are active.

1100 - 1110 Spoke with L. Campbell onsite activities.

1115 Want to ONCA, IES beginning to pressure test yard piping. Pressurize to 95 psi for 15 min. Eagle Services vacuuming wells.

1120 Roll 35 Photo 4 facing NW of pressure testing of SVE-61 and SVE-63.

1135 T. Klingforth reported pressure testing is passing. Piping pressurized to 95 psi, SVE-61 less pressure to 93 psi. MNH allowing +/- 2% margin to qualify as passing.

1145 Roll 35 Photo 5 facing N showing Eagle vacuuming SVE-46.

1150 Eagle to continue vacuuming wells, IES to continue pressure testing. MNH + IES break for lunch - No other site activities planned.

1200 Left site for day - Return to office

[Signature]
11/9/03

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1/30/03

G. H. Peters

0730 Arrive on site, SE wind, cloudy, 20-25°F

Personnel Present

Lee Orsz MNH

Lane DeBartolo IES

Mike Petrich IES

Terrence Jones IES

Travis Klingforth MNH

Leigh Peters BRSPC

0735 Spoke with L. Orsz. He reported IES has 2 DPE wells to cut & reconnect for air line. Bulkhead fittings to be on site today. MNH hoping to connect air lines this week and start setting pumps. IES not working next Mon + Tuesday. L. Orsz also reported two leaks in OFCA scrubber found Monday morning. He reported that there was a cloud of TP haze in GWTP on Monday - MNH vented building and shut down unit, patch 2 holes in stainless steel. Scrubber + thermox on line Tuesday after air valve outside thawed. MNH connected piping from catox to heat exchanger piping so that the biotank is still heated when thermox unit is down.

0745 Roll 35 Photo 6 facing East of patches on

[Signature]

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11/30/63

50/5/5

scrubber with, Note lower patch of wild
location that had psilocybes before L. Oresc.
reported That MWH is having a replacement,
lower portion of scrubber tabulated from

0758 coll 35 photo 7 facing west of piping installed

between Gator and Scissor for heat

0755 R.1135 Photo & faury 5 of hole in OPT

Well for air line and cutters. Note we'll

0900	Roll 35	Photo 9	facing SE	showing 125
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Removal portion of well cut off from

5VE-63.

05025	L. Patrus observed	that	165 not	scalling
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hole drilled in DPE well casing for any line connection. IES & MW will report that the fittings will be installed today, which is why they are not tapping holes.

0810 Roll 35 photo 10 facing SW showing 15.5

nothing well and grounding.

Roll 35 Photo 11 Facing W of 165 drilling

57-215 2nd 2nd 1st 1st 2/94

0820 Roll 35 Photo 12 frame 56 of 153 wrong print
cut at 56-65

~~2nd 7 1/2~~

[Handwritten signature]

1/30/03

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1000 Weekly Construction Meeting

Attendees - * on previous list plus

Tom	Tinics	MWH	Bob Adams	MWH
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CHMS D15
MWH

John Pohl MNH - via phone

Kenn Adl/r - USEPA - via phone

HT5: haze of partially condensed vapor

in GWT on Monday - system was shut down
unavailability. LES performing air

6 WTP: op at 23 gpm, Adjusted cat or

to use seawater rather than fresh water

OFLA 1515 Noted corrosion on screw

patented with high temp drink that failed

over neonatal, creating haze of moist water

4/5/54

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1/30/03

Y. J. SP-10

MWH patched with fiberglass and working with Vidimos to reconstruct a hastelloy sump. Checking patch visually and physically. Still scheduling inspection over next few weeks. MWH to switch wells after repair; MWH collecting final sample from first group today.

ONCA: All of DPE wells cut down and penetrations drilled. IES to install fittings and air line. MWH to start pumping by next Thursday. MWH reviewing PID from Global - expect Thermox/scrubber submittal soon. Fliteway to provide drawings. MWH expects 2 wks of work remaining on ONCA before ground.

Design Refinements: MWH has not scheduled date of collecting 2 additional clay samples on ONCA.

Look Ahead: GWTP/DFCA ISVE operation SPDA ISVE yard piping.

Next Mtg: February 6, 2003.

1030 Mtg Concluded

1050 Next to ONCA IES uncoiling HDPE air line.

Spoke with L Campbell re site activities

1110 Left site for day

Y. J. SP-10

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2/5/03

Y. J. SP-10

0735 Arrive on-site, $\sim 10^{\circ}\text{F}$, forecast mid 20s, clear, SW wind

Personnel Present:

LCC Drossz	MWH
Lane DeBartolo	IES
Mike Petric	IES
Tom Evans	Ryan
Derry Clark	Ryan
Leigh Peters	TVS PC

Activities today:

- ① Ryan disassembling DFCA ISVE scrubber
- ② IES install bulkhead fittings & pumps for ONCA ISVE DPE wells.

0755 Next to ONCA - observed IES connecting fitting at SVE-48 and install pump IES reported that it isn't observing any odors from wells - After cleaned by Eagle.

0815 Roll 36 Photos 1 facing S of IES installing bulkhead fitting on SVE-46

0825 Observed Ryan beginning to disassemble scrubber. MWH measured temperature of scrubber during operation and marked. Shell temp at failed welds were 175°F or lower location and 133° at location near packed tower

1830 Returned to ONCA to observe IES

Y. J. SP-10



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 34 Photo #19

Date: 01-02-03 Time: 08:30

Photographer: Leigh Peters

Description: Photo facing southwest showing IES fusion welding the ONCA SBPA ISVE system yard piping. Note the flange for connection at the well.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 34 Photo #20

Date: 01-02-03 Time: 09:05

Photographer: Leigh Peters

Description: Photo facing northeast showing MWH measuring the depth to the pitless adaptor.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 34 Photo #21

Date: 01-02-03 Time: 09:30

Photographer: Leigh Peters

Description: Photo facing east at SVE-65 showing the oil on the water level indicator tape.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 35 Photo #1

Date: 01-09-03 Time: 08:00

Photographer: Leigh Peters

Description: Photo facing west showing IES welding HDPE piping for connection to the flange.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 35 Photo #2

Date: 01-09-03 Time: 08:50

Photographer: Leigh Peters

Description: Photo facing south showing the air lines and pitless adaptor connection to the pneumatic pumps for the dual phase extraction wells.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 35 Photo #3

Date: 01-09-03 Time: 09:00

Photographer: Leigh Peters

Description: Photo facing east of precipitating calcified water at the OFCA ISVE system scrubber sump at the location of failing welds.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 35 Photo #4

Date: 01-09-03 Time: 11:20

Photographer: Leigh Peters

Description: Photo facing northwest showing IES pressure testing the yard piping to ONCA SBPA ISVE system wells SVE-61 and SVE-63.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 35 Photo #5

Date: 01-09-03 Time: 11:45

Photographer: Leigh Peters

Description: Photo facing north showing Eagle Services removing sediment from ONCA SBPA ISVE system well SVE-46.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 35 Photo #6

Date: 01-30-03 Time: 07:45

Photographer: Leigh Peters

Description: Photo facing east showing the fiberglass patches on the OFCA ISVE system scrubber sump where corrosion is present.



Site: American Chemical Services, Inc.

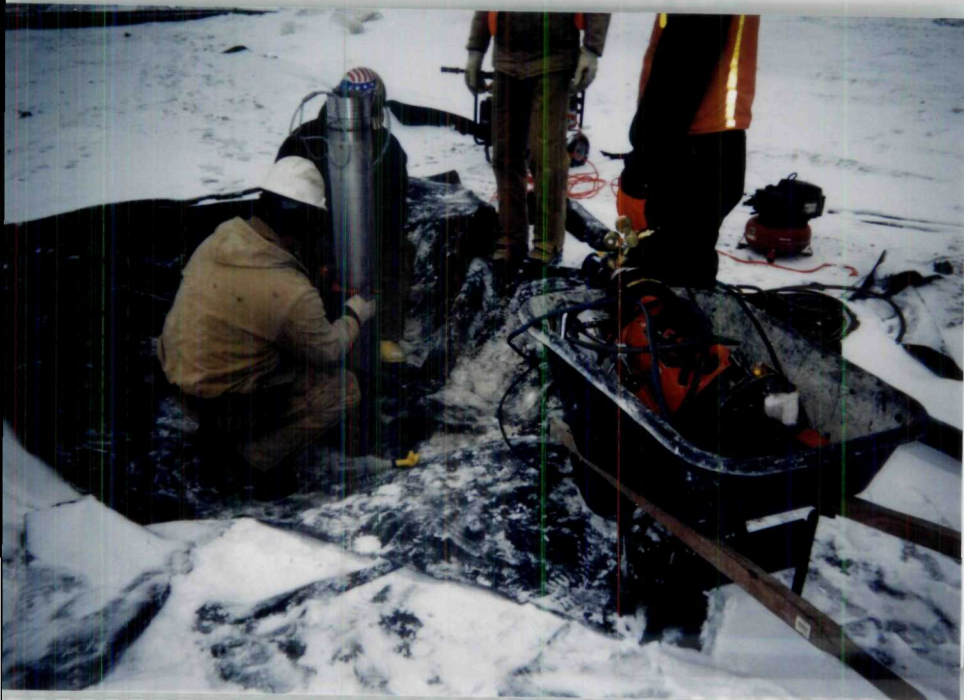
Proj. #: 46526

Roll: 35 Photo #7

Date: 01-30-03 Time: 07:50

Photographer: Leigh Peters

Description: Photo facing west showing the piping installed between the catalytic oxidizer and the OFCA ISVE system scrubber for the heat exchanger.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 35 Photo #8

Date: 01-30-03 Time: 07:55

Photographer: Leigh Peters

Description: Photo facing south showing the hole drilled in a DPE well casing for the air supply line and IES cutting the well casing.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 35 Photo #9

Date: 01-03-30 Time: 08:00

Photographer: Leigh Peters

Description: Photo facing southeast showing IES removing the excess riser pipe from a ONCA SBPA ISVE system DPE well.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 35 Photo #10

Date: 01-30-03 Time: 08:10

Photographer: Leigh Peters

Description: Photo facing southwest showing IES inerting a DPE well in order to drill the hole for the air supply line. Note grounding wire between the nitrogen tank and well.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 35 Photo #11

Date: 01-30-03 Time: 08:20

Photographer: Leigh Peters

Description: Photo facing west showing IES drilling the hole for the air line at ONCA SBPA ISVE system well SVE-65.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 35 Photo #12

Date: 01-30-03 Time: 08:20

Photographer: Leigh Peters

Description: Photo facing southeast showing IES using a tube cutter to cut the excess riser pipe from ONCA SBPA ISVE system well SVE-65.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 35 Photo #13

Date: 01-30-03 Time: 08:40

Photographer: Leigh Peters

Description: Photo facing northeast showing IES filing the top of a ONCA SBPA ISVE system DPE well after the excess riser pipe was removed.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 35 Photo #14

Date: 01-30-03 Time: 08:50

Photographer: Leigh Peters

Description: Photo facing north showing IES monitoring the oxygen and lower explosive limit at a DPE well during prior to filing activities.